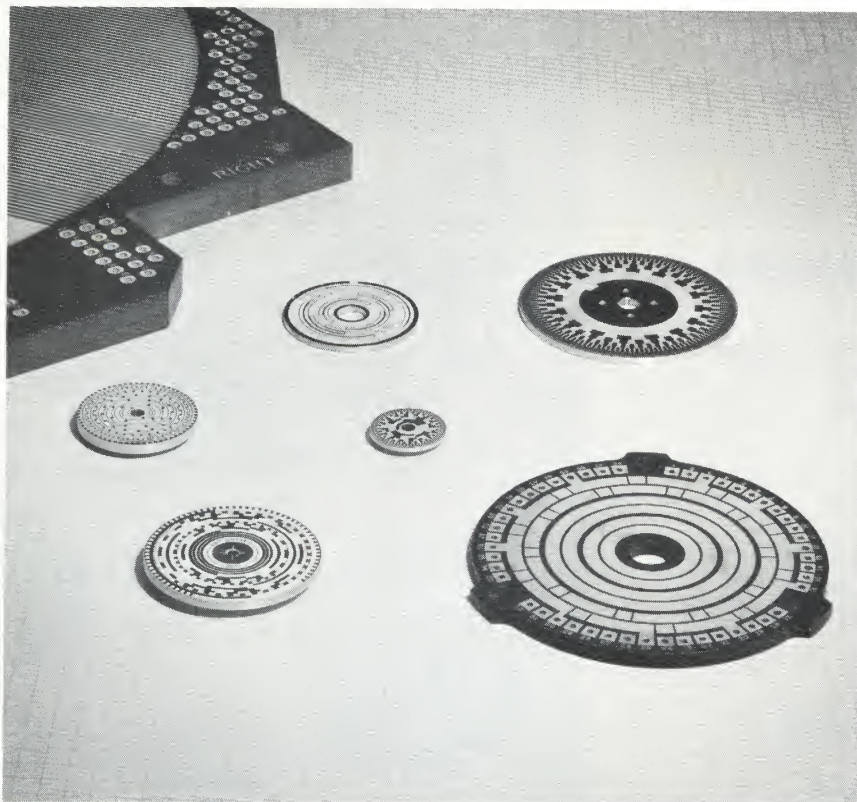




SWITCH DISCS AND COMMUTATORS



GENERAL DESCRIPTION

Intellux precision flush circuitry is specifically made to fill the exacting requirements of modern high-bit encoding systems and for utilization in other noise-free high-angular or segment-accuracy switching mechanisms.

Discs are made by the Intellux patented "transfer process." It is the only commercially available technique whereby surface flushness in the order of one micron is a standard production practice.

Another exclusive Intellux process enables the incorporation of complex interconnection and crossover circuitry within the supporting substrate of the disc. Terminations can then be located in any convenient area on either the front or rear surface of the disc. Sub-surface circuitry can be interconnected without interfering with the commutating surface.

Practically an unlimited variety of support materials are available . . . from plastic to metals. Precision machine work, on discs, can be performed by Intellux. The necessary optical equipment is available to establish proper relationship between the segments and the required mechanical configuration.



POST OFFICE BOX 929
SANTA BARBARA, CALIFORNIA
PHONE (805) 96 6-1585

SPECIFICATION PARAMETERS

Surface Circuitry

Materials—Gold, Rhodium, Silver, Nickel, Copper
Line width—0.002" commercial min.
Angular tolerance—2' of arc over 360°

Commutator Surfaces

1. Gold Surface
 - Thickness (Std.)00005"
 - Hardness125 vickers min.
 - Backup0010 nickel
 - Recommended wiperNey-Oro G
2. Silver Surface
 - Thickness (Std.)001"
 - Hardness90 vickers min.
 - BackupNi
 - Recommended wiperNey-Oro 28A
3. Rhodium Surface
 - Thickness (Std.)00005"
 - Hardness850 vickers
 - Backup001 nickel
 - Recommended wiperPaliney #7

Insulation — Epoxy resin

Surface Finish — $\sqrt{8}$ Max.

Flushness — 1 micron max.

Substrate — Metal or epoxy-glass or epoxy-paper

This is the data we need to be of maximum assistance

In order for us to be of maximum service in answering your inquiries, there is basic data that can be of great help to us in making our answers as specific as possible.

- Current characteristics (voltage-amp)
- RPM (min., max., average)
- Make before break or break before make?
- Brush pressure
- Permissible electrical noise level
- Critical areas
- Tolerances
- Environmental and test temperatures
- Expected life

